

Catalog No.: RP03206LQ **Recombinant**

Species	Gene ID	Swiss Prot
Human	7511	O9NOW7

Tags

Xaa-Pro Aminopeptidase 1;
Aminoacylproline Aminopeptidase;
Cytosolic Aminopeptidase P; Soluble
Aminopeptidase P; sAmp; X-Pro
Aminopeptidase 1; X-Prolyl
Aminopeptidase 1 Soluble; XPNPEP1;
XPNPEP1: XPNPEP1.1

Source	Purification
<i>E. coli</i>	≥ 85 % as determined by SDS-PAGE.

Calculated MW	Observed MW
70.6 KDa	69-85 KDa

< 1 EU/μg of the protein by LAL method.

Supplied as a 0.22 µm filtered solution in 20mM PB, 8% Sucrose, 100mM NaCl, 10% Glycerol, 0.05% Tween80, 0.02% Tween20, pH 7.5. Contact us for customized product form or formulation.

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X-Prolyl Aminopeptidase (XPNPEP1) is a proline-specific metalloaminopeptidase that specifically catalyzes the removal of any unsubstituted N-terminal amino acid that is adjacent to a penultimate proline residue. Because of its specificity toward proline, it has been suggested that X-Prolyl Aminopeptidase is important in the maturation and degradation of peptide hormones, neuropeptides, and tachykinins, as well as in the digestion of otherwise resistant dietary protein fragments, thereby complementing the pancreatic peptidases. X-Prolyl Aminopeptidase is a member of the M24 family of metalloproteases, which also contains methionine aminopeptidases, X-Pro dipeptidase, aminopeptidase P2, aminopeptidase P homolog, proliferation-associated protein 1, and suppressor of Ty homolog or chromatin-specific transcription elongation factor large subunit. It is a soluble enzyme, in contrast to the GPI-anchored Aminopeptidase P2 encoded by XPNPEP2. Deficiency of X-Prolyl Aminopeptidase results in excretion of large amounts of imino-oligopeptides in urine. Human Aminopeptidase P1 is widely expressed. The amino acid sequence of human X-Prolyl Aminopeptidase is 99%, 97%, 95%, 74% and 73% identical to that of canine, bovine, mouse/rat, *Xenopus* and zebrafish, respectively.

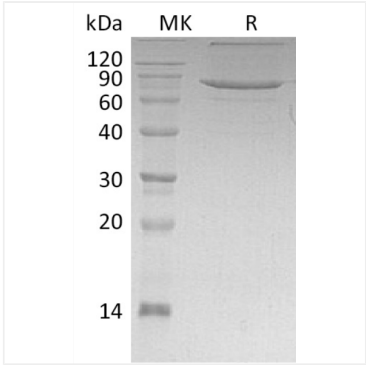
Recombinant Human XPNPEP1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Pro2-His623) of Human XPNPEP1 (Accession #NP_001311061.1) fused with 6×His tag at the C-terminus.

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Store at -80°C
Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human XPNPEP1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.